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**C08F 4/658****C08F 10/02**(21)Application number : **07-330675**(71)Applicant : **SAMSUNG GENERAL CHEM CO LTD**(22)Date of filing : **19.12.1995**(72)Inventor : **VLADIMIR ALEKSANDROV  
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NIKITIN****(54) PRODUCTION OF SUPPORTED CATALYST FOR POLYMERIZATION OF ETHYLENE AND FOR COPOLYMERIZATION OF ETHYLENE WITH ALPHA-OLEFIN**

(57)Abstract:

**PROBLEM TO BE SOLVED:** To obtain a polymer having a controlled narrow particle size distribution and a high bulk density by performing the (co)polymerization in the presence of a catalyst prepared by reacting a specified organomagnesium compound (A) with an organohalogen compound (B) under specified conditions.

**SOLUTION:** In producing a supported catalyst for the polymerization of ethylene or the copolymerization of ethylene with an  $\alpha$ -olefin by reacting a solution of component A with component B to form a magnesium-containing support and treating this support with a titanium or vanadium compound, component A used is a compound having a composition represented by the formula:  $\text{MgPh}_2/n\text{MgCl}_2/m\text{R}_2\text{O}$  (wherein (n) is 0.37-0.7;  $m \geq 0.5$ ;  $\text{R}_2\text{O}$  is an ether; and Ph is a phenyl). This compound is obtained by reacting metallic magnesium with chlorobenzene in the presence of dibutyl ether. Component B is, for example, carbon tetrachloride. Component A is reacted with component B at a component B/Mg molar ratio of 0.5 or above at -20 to 80°C to obtain the objective supported catalyst.

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